



**CITY OF HAYWARD**  
**AGENDA REPORT**

AGENDA DATE 11/16/99  
AGENDA ITEM 3  
WORK SESSION ITEM \_\_\_\_\_

**TO:** Mayor and City Council  
**FROM:** Director of Public Works  
**SUBJECT:** Optical Traffic Signal Preemption System: Approval of Addendum No. 1 and Award of Contract

**RECOMMENDATION:**

It is recommended that the City Council approve the attached resolution that:

1. Approves Addendum No. 1, which provides the updated Federal Minimum Wage Rates; and
2. Awards the contract to Tennyson Electric, Inc., of Livermore, California in the amount of \$145,500.

**BACKGROUND:**

On September 21, 1999, the City Council approved the plans and specifications and called for bids to be received on October 19, 1999, for this project, which will install optical traffic signal preemption devices at 11 intersections (see Exhibit A), as follows:

1. Jackson Street and Santa Clara Street
2. Jackson Street and Mission Boulevard and Foothill Boulevard
3. Mission Boulevard and Harder Road
4. Mission Boulevard and Tennyson Road
5. West "A" Street and I-880
6. West "A" Street and Hesperian Boulevard
7. West "A" Street and Santa Clara Street
8. Industrial Parkway and Ruus Road
9. W. Tennyson Road and Hesperian Boulevard
10. Soto Road and Harder Road
11. Huntwood Avenue and Industrial Parkway

On October 19, 1999, five base bids were received ranging from \$145,500 to \$158,100. Tennyson Electric, Inc. of Livermore submitted the low base bid in the amount of \$145,500, which is 24 percent higher than the Engineer's Estimate of \$117,000. The bids probably were higher than anticipated because of the current high demand for electrical contract work. Two local firms, who generally work on City signals, were contacted during the bid period. Because they were both currently very busy, neither obtained a set of the plans and specifications. Since the five bids received were generally consistent with each other, rebidding would probably not result in lower bids. Because of the high bids, staff does not recommend awarding the alternate bid items: for pre-emption devices at Elmhurst/Santa Clara

or for replacement of optical transmitters on fourteen fire apparatus. Tennyson Electric bid for the alternate bid items was \$40,700. Fire Department staff has indicated that although they had wanted the new transmitters because the newer models have added features, existing equipment can still be used and functions properly. Staff will continue to pursue grant funding for the upgrade of the Fire Department optical transmitters.

The single Disadvantaged Business Enterprise (DBE) goal of 3 percent established for this federally funded project includes both Minority Business Enterprise (MBE) and Women Business Enterprise (WBE) participation. Tennyson Electric's bid includes 3.5 percent participation.

#### PROJECT COST:

The estimated costs for the project are:

Construction Contract Cost	\$145,500
Design and Administration	20,000
Outside Services (Work by City Maintenance Contractor)	2,500
Inspection and testing	8,000
Work by City Crews	2,000
TOTAL	<u>\$178,000</u>

#### FUNDING:

The adopted 1999/2000 Capital Improvement Program includes \$148,000 in the Transportation System Improvement Fund for this project. Federal Hazard Elimination Safety funds will reimburse \$143,000. Sufficient monies are available for transfer within the fund to complete this project. Transfer of the required \$30,000 will be done administratively.

#### SCHEDULE:

Award	November 16, 1999
Begin Construction	January 7, 2000
Complete work	March 23, 2000

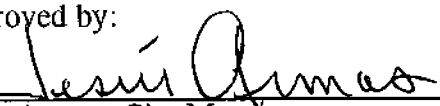
Prepared by:

  
Robert A. Bauman, Deputy Director of Public Works

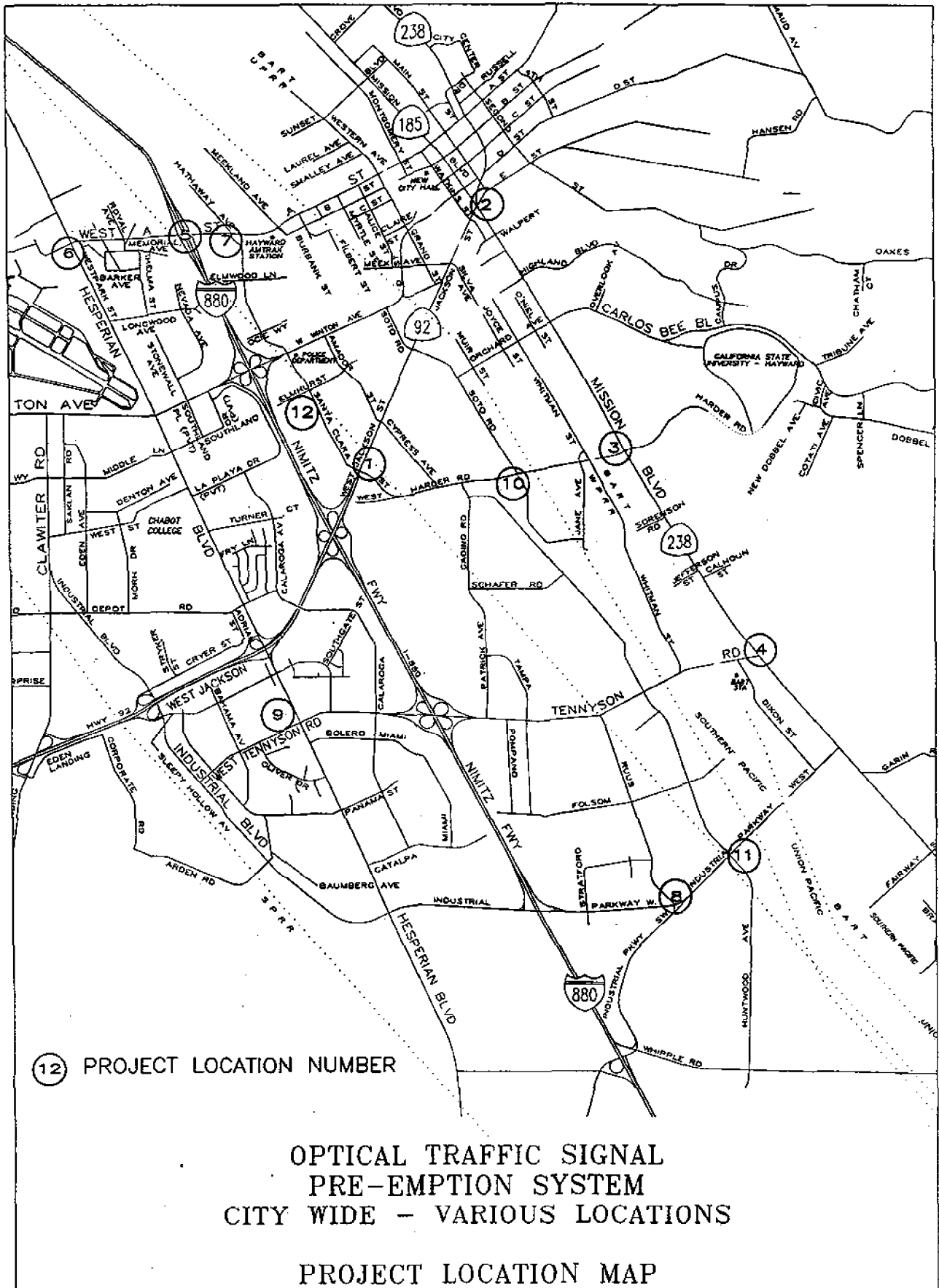
Recommended by:

  
Dennis L. Butler, Director of Public Works

Approved by:

  
Jesús Armas, City Manager

Attachments: Exhibit A: Project Location Map  
Exhibit B: Bid Summary



TRAFFIC SIGNALS\5704\_FED\_LOC-MAP.DWG

CITY OF HAYWARD

OPTICAL TRAFFIC SIGNAL PRE-EMPTION SYSTEMS - CITY WIDE - VARIOUS LOCATIONS

PROJECT NO. 5704, FEDERAL PROGRAM NO. STPLHG-5050(013)

BIDS OPENED: OCTOBER 19, 1999

(NUMBER OF BIDS RECEIVED - 5)

PAGE 1 OF 6

Exhibit B

BID SUMMARY				ENGINEER'S ESTIMATE		TENNYSON ELECTRIC INC. 7275 NATIONAL DR STE A LIVERMORE CA 94550 (925) 606-1038		RICHARD A. HEAPS ELEC. CONT. 8909 FLORIN ROAD SACRAMENTO CA 95829 (916) 386-8857	
ITEM	QUANTITY	UNIT		UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL
1	1	LS	PRE-EMPTION SYSTEM AT JACKSON ST/SANTA CLARA ST	13,000.00	13,000.00	13,500.00	13,500.00	13,600.00	13,600.00
2	1	LS	PRE-EMPTION SYSTEM AT JACKSON ST/MISSION BLVD/FOOTHILL BLVD	8,000.00	8,000.00	11,500.00	11,500.00	10,300.00	10,300.00
3	1	LS	PRE-EMPTION SYSTEM AT MISSION BLVD/HARDER RD	8,000.00	8,000.00	11,000.00	11,000.00	10,300.00	10,300.00
4	1	LS	PRE-EMPTION SYSTEM AT MISSION BLVD/TENNYSON RD	9,000.00	9,000.00	11,000.00	11,000.00	11,700.00	11,700.00
5	1	LS	PRE-EMPTION SYSTEM AT WEST A ST/-880	8,500.00	8,500.00	12,900.00	12,900.00	12,100.00	12,100.00
6	1	LS	PRE-EMPTION SYSTEM AT WEST A ST/HESPERIAN BLVD	7,800.00	7,800.00	11,500.00	11,500.00	10,700.00	10,700.00
7	1	LS	PRE-EMPTION SYSTEM AT WEST A ST/SANTA CLARA ST	13,000.00	13,000.00	13,500.00	13,500.00	17,750.00	17,750.00
8	1	LS	PRE-EMPTION SYSTEM AT INDUSTRIAL PKWY/RUUS RD	10,000.00	10,000.00	12,900.00	12,900.00	16,950.00	16,950.00
9	1	LS	PRE-EMPTION SYSTEM AT WEST TENNYSON RD/HESPERIAN BLVD	8,500.00	8,500.00	12,900.00	12,900.00	11,750.00	11,750.00
10	1	LS	PRE-EMPTION SYSTEM AT SOTO RD/HARDER RD	7,800.00	7,800.00	11,800.00	11,800.00	10,700.00	10,700.00
11	1	LS	PRE-EMPTION SYSTEM AT HUNTWOOD AVE/INDUSTRIAL PKWY	7,800.00	7,800.00	11,900.00	11,900.00	10,390.00	10,390.00
12	1	LS	TRAFFIC CONTROL FOR LANE CLOSURE	10,000.00	10,000.00	5,500.00	5,500.00	5,500.00	5,500.00
13	1	LS	ADMINISTRATIVE CHANGE ORDERS	5,600.00	5,600.00	5,600.00	5,600.00	5,600.00	5,600.00
			TOTAL BASE BID		117,000.00		145,500.00		147,340.00

CITY OF HAYWARD

OPTICAL TRAFFIC SIGNAL PRE-EMPTION SYSTEMS - CITY WIDE - VARIOUS LOCATIONS

PROJECT NO. 5704, FEDERAL PROGRAM NO. STPLHG-5050(013)

BIDS OPENED: OCTOBER 19, 1999

(NUMBER OF BIDS RECEIVED - 5)

PAGE 2 OF 6

BID SUMMARY			ENGINEER'S ESTIMATE		TENNYSON ELECTRIC INC. 7275 NATIONAL DR STE A LIVERMORE CA 94550 (925) 606-1038		RICHARD A. HEAPS ELEC. CONT. 8909 FLORIN ROAD SACRAMENTO CA 95829 (916) 386-8857				
ITEM	QUANTITY	UNIT	UNIT PRICE		TOTAL	UNIT PRICE		TOTAL	UNIT PRICE		TOTAL
ADD ALTERNATE BID NO. 1											
14	1	LS	PRE-EMPTION SYSTEM AT ELMHURST ST/SANTA CLARA ST		6,000.00	6,000.00	9,200.00	9,200.00	10,199.00	10,199.00	
		TOTAL ADD ALTERNATIVE NO. 1				6,000.00		9,200.00		10,199.00	
ADD ALTERNATE BID NO. 2											
15	14	EA	FIRE TRUCK EMITTER AND INSTALLATION		1,500.00	21,000.00	2,250.00	31,500.00	2,055.00	28,770.00	
		TOTAL ADD ALTERNATIVE NO. 2				21,000.00		31,500.00		28,770.00	

SUBCONTRACTOR:  
DIAZ CORP.

CITY OF HAYWARD  
 OPTICAL TRAFFIC SIGNAL PRE-EMPTION SYSTEMS - CITY WIDE - VARIOUS LOCATIONS  
 PROJECT NO. 5704, FEDERAL PROGRAM NO. STPLHG-5050(013)  
 BIDS OPENED: OCTOBER 19, 1999

(NUMBER OF BIDS RECEIVED - 5)

PAGE 3 OF 6

BID SUMMARY			ENGINEER'S ESTIMATE		MIKE BROWN ELECTRIC CO. 561-A MERCANTILE DRIVE COTATI CA 94931 (707) 792-8100		STEINY AND COMPANY INC. 27 SHERIDAN ST, PO BOX 3008 VALLEJO CA 94590 (707) 552-6900		
ITEM	QUANTITY	UNIT		UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL
1	1	LS	PRE-EMPTION SYSTEM AT JACKSON ST/SANTA CLARA ST	13,000.00	13,000.00	13,000.00	13,000.00	14,500.00	14,500.00
2	1	LS	PRE-EMPTION SYSTEM AT JACKSON ST/MISSION BLVD/FOOTHILL BLVD	8,000.00	8,000.00	10,000.00	10,000.00	11,500.00	11,500.00
3	1	LS	PRE-EMPTION SYSTEM AT MISSION BLVD/HARDER RD	8,000.00	8,000.00	10,000.00	10,000.00	12,000.00	12,000.00
4	1	LS	PRE-EMPTION SYSTEM AT MISSION BLVD/TENNYSON RD	9,000.00	9,000.00	14,000.00	14,000.00	12,500.00	12,500.00
5	1	LS	PRE-EMPTION SYSTEM AT WEST A ST/-880	8,500.00	8,500.00	12,000.00	12,000.00	14,500.00	14,500.00
6	1	LS	PRE-EMPTION SYSTEM AT WEST A ST/HESPERIAN BLVD	7,800.00	7,800.00	10,000.00	10,000.00	12,000.00	12,000.00
7	1	LS	PRE-EMPTION SYSTEM AT WEST A ST/SANTA CLARA ST	13,000.00	13,000.00	16,000.00	16,000.00	14,000.00	14,000.00
8	1	LS	PRE-EMPTION SYSTEM AT INDUSTRIAL PKWY/RUUS RD	10,000.00	10,000.00	14,000.00	14,000.00	16,000.00	16,000.00
9	1	LS	PRE-EMPTION SYSTEM AT WEST TENNYSON RD/HESPERIAN BLVD	8,500.00	8,500.00	12,000.00	12,000.00	13,000.00	13,000.00
10	1	LS	PRE-EMPTION SYSTEM AT SOTO RD/HARDER RD	7,800.00	7,800.00	12,000.00	12,000.00	13,000.00	13,000.00
11	1	LS	PRE-EMPTION SYSTEM AT HUNTWOOD AVE/INDUSTRIAL PKWY	7,800.00	7,800.00	12,000.00	12,000.00	12,400.00	12,400.00
12	1	LS	TRAFFIC CONTROL FOR LANE CLOSURE	10,000.00	10,000.00	8,000.00	8,000.00	2,500.00	2,500.00
13	1	LS	ADMINISTRATIVE CHANGE ORDERS	5,600.00	5,600.00	5,600.00	5,600.00	5,600.00	5,600.00
			TOTAL BASE BID		117,000.00		148,600.00		153,500.00 *

\*TOTAL DIFFERENT THAN SUBMITTED BID

CITY OF HAYWARD

OPTICAL TRAFFIC SIGNAL PRE-EMPTION SYSTEMS - CITY WIDE - VARIOUS LOCATIONS

PROJECT NO. 5704, FEDERAL PROGRAM NO. STPLHG-5050(013)

BIDS OPENED: OCTOBER 19, 1999

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PAGE 4 OF 6

BID SUMMARY			ENGINEER'S ESTIMATE		MIKE BROWN ELECTRIC CO. 561-A MERCANTILE DRIVE COTATI CA 94931 (707) 792-8100		STEINY AND COMPANY INC. 27 SHERIDAN ST, PO BOX 3008 VALLEJO CA 94590 (707) 552-6900	
ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL
ADD ALTERNATE BID NO. 1								
14	1	LS	6,000.00	6,000.00	7,250.00	7,250.00	11,000.00	11,000.00
		PRE-EMPTION SYSTEM AT ELMHURST ST/SANTA CLARA ST						
		TOTAL ADD ALTERNATIVE NO. 1		6,000.00		7,250.00		11,000.00
ADD ALTERNATE BID NO. 2								
15	14	EA	1,500.00	21,000.00	1,714.00	23,996.00	1,720.00	24,080.00
		FIRE TRUCK EMITTER AND INSTALLATION						
		TOTAL ADD ALTERNATIVE NO. 2		21,000.00		23,996.00		24,080.00

CITY OF HAYWARD

OPTICAL TRAFFIC SIGNAL PRE-EMPTION SYSTEMS - CITY WIDE - VARIOUS LOCATIONS

PROJECT NO. 5704, FEDERAL PROGRAM NO. STPLHG-5050(013)

BIDS OPENED: OCTOBER 19, 1999

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BID SUMMARY				ENGINEER'S ESTIMATE		FREEWAY ELECTRIC INC 345 COMMERCIAL ST SAN JOSE CA 95112 (408) 998-7195	
ITEM	QUANTITY	UNIT		UNIT PRICE	TOTAL	UNIT PRICE	TOTAL
1	1	LS	PRE-EMPTION SYSTEM AT JACKSON ST/SANTA CLARA ST	13,000.00	13,000.00	16,500.00	16,500.00
2	1	LS	PRE-EMPTION SYSTEM AT JACKSON ST/MISSION BLVD/FOOTHILL BLVD	8,000.00	8,000.00	14,000.00	14,000.00
3	1	LS	PRE-EMPTION SYSTEM AT MISSION BLVD/HARDER RD	8,000.00	8,000.00	11,000.00	11,000.00
4	1	LS	PRE-EMPTION SYSTEM AT MISSION BLVD/TENNYSON RD	9,000.00	9,000.00	11,000.00	11,000.00
5	1	LS	PRE-EMPTION SYSTEM AT WEST A ST/I- 880	8,500.00	8,500.00	11,500.00	11,500.00
6	1	LS	PRE-EMPTION SYSTEM AT WEST A ST/HESPERIAN BLVD	7,800.00	7,800.00	11,000.00	11,000.00
7	1	LS	PRE-EMPTION SYSTEM AT WEST A ST/SANTA CLARA ST	13,000.00	13,000.00	17,300.00	17,300.00
8	1	LS	PRE-EMPTION SYSTEM AT INDUSTRIAL PKWY/RUUS RD	10,000.00	10,000.00	15,750.00	15,750.00
9	1	LS	PRE-EMPTION SYSTEM AT WEST TENNYSON RD/HESPERIAN BLVD	8,500.00	8,500.00	13,100.00	13,100.00
10	1	LS	PRE-EMPTION SYSTEM AT SOTO RD/HARDER RD	7,800.00	7,800.00	10,500.00	10,500.00
11	1	LS	PRE-EMPTION SYSTEM AT HUNTWOOD AVE/INDUSTRIAL PKWY	7,800.00	7,800.00	10,500.00	10,500.00
12	1	LS	TRAFFIC CONTROL FOR LANE CLOSURE	10,000.00	10,000.00	10,350.00	10,350.00
13	1	LS	ADMINISTRATIVE CHANGE ORDERS	5,600.00	5,600.00	5,600.00	5,600.00
			TOTAL BASE BID		117,000.00		158,100.00



CITY OF HAYWARD

OPTICAL TRAFFIC SIGNAL PRE-EMPTION SYSTEMS - CITY WIDE - VARIOUS LOCATIONS

PROJECT NO. 5704, FEDERAL PROGRAM NO. STPLHG-5050(013)

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BID SUMMARY			ENGINEER'S ESTIMATE		FREEWAY ELECTRIC INC 345 COMMERCIAL ST SAN JOSE CA 95112 (408) 998-7195	
ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL
ADD ALTERNATE BID NO. 1						
14	1	LS	PRE-EMPTION SYSTEM AT ELMHURST ST/SANTA CLARA ST	6,000.00	6,000.00	11,000.00
			TOTAL ADD ALTERNATIVE NO. 1	6,000.00		11,000.00
ADD ALTERNATE BID NO. 2						
15	14	EA	FIRE TRUCK EMITTER AND INSTALLATION	1,500.00	21,000.00	28,000.00
			TOTAL ADD ALTERNATIVE NO. 2	21,000.00		28,000.00

**DRAFT**

Sm 11-1-99

HAYWARD CITY COUNCIL

RESOLUTION NO. \_\_\_\_\_

Introduced by Council Member \_\_\_\_\_

RESOLUTION APPROVING ADDENDUM NO. 1 FOR THE  
OPTICAL TRAFFIC SIGNAL PREEMPTION SYSTEM  
PROJECT, PROJECT NO. 5704, AND AWARD CONTRACT  
TO TENNYSON ELECTRIC, INC.

WHEREAS, on September 21, 1999, the City Council approved the plans and specifications for the Optical Traffic Signal Preemption System Project, Project No. 5704, and called for bids to be received on October 19, 1999; and

WHEREAS, Addendum No. 1 was issued to provide the updated Federal Minimum Wage Rate.

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Hayward that Addendum No. 1 is hereby approved and adopted as part of the plans and specifications for the project.

BE IT FURTHER RESOLVED that Tennyson Electric, Inc., located in Livermore, California, is hereby awarded the contract for the Optical Traffic Preemption Project, Project No. 5704, in accordance with the plans and specifications adopted therefor and on file in the office of the City Clerk of the City of Hayward at and for \$145,500 (one hundred forty five thousand, five hundred dollars), the price named and stated in the bid of the hereinabove specified bidder, and all other bids are hereby rejected.

BE IT FURTHER RESOLVED that the City Manager is hereby authorized and directed to execute an agreement with Tennyson Electric, Inc., for the award of the contract on behalf of the City of Hayward, in an amount not to exceed \$145,500 (one hundred forty five thousand, five hundred dollars) for the Optical Traffic Signal Preemption System Project, Project No. 5704, in a form to be approved by the City Attorney.

IN COUNCIL, HAYWARD, CALIFORNIA \_\_\_\_\_, 1999

ADOPTED BY THE FOLLOWING VOTE:

AYES:

NOES:

ABSTAIN:

ABSENT:

ATTEST: \_\_\_\_\_  
City Clerk of the City of Hayward

APPROVED AS TO FORM:

\_\_\_\_\_  
City Attorney of the City of Hayward